

How can Mr. Morrison then say that *opipara* and *islandica* "do not bear any resemblance to each other"?

As to *A. scropulana*, I think I am justified in making a suggestion as to its identity with *Pachnobia carnea*, from its near resemblance, as to which its author was entirely silent. It differs by the basal markings of the primaries, a character which formed my principal difficulty in suggesting the identity of the species. None of the other characters pointed out by Mr. Morrison in his late paper appear to me to be valid, or other than varietal and inconstant in the limited number of specimens before me. The structure of the feet, so far as I can now see, after a careful re-examination, is the same in both forms. The line on the hind wings, the discal marks and the tone are the same.

In conclusion, I would draw attention to the fact that Mr. Morrison's descriptions of *opipara* and *scropulana*, as well as those of other species of the genus in the Proceedings of the Boston Society of Natural History, are too indefinite for identification; so that, did I not possess material received from himself, I would hardly be in a position to refer to his species at all.

A. R. Grote.

BIBLIOGRAPHICAL RECORD.

Authors and Societies are requested to forward their works to the Editor at the earliest date possible. We ask our readers to inform us of the publication especially of those works which are not generally consulted by entomologists.

B. Pickman Mann.

(Continued from page 96.)

No. 226 is from the **Ann. Rep. Mus. Comp. Zool.**, for 1874.

* 226. C. R. OSTEN-SACKEN. Report on the present condition of the Collection of Diptera of the Museum of Comparative Zoology. p. 14-17.

Grouping of the materials by faunæ; degree of value to be attached to the several groups.

¹* 227. **Sarah Hackett Stevenson.** Boys and Girls in Biology; or, Simple Studies of the Lower Forms of Life, based upon the latest Lectures of Prof. T. H. Huxley, and published by his permission. New York, Appleton, 1875. 8vo. pg. 186.

¹ Record furnished by Mr. George Dinmock.

p. 155-184. The Butterfly: its egg, larva and pupa; their development and anatomy. p. 186. Brief definition of an insect.

* 228. [**Chicago**] **Inter-Ocean**. Grasshoppers in Minnesota. New York Commercial Advertiser, June 1, 1874.

Habitats, habits and enemies of locusts.

* 229. **St. Joseph [Mo.] Herald**. Grasshoppers stopping Cars. Hartf. Daily Courant, vol. xxxviii, No. 198 (11, 163), Aug. 19, 1874.

Stoppage of railroad trains by locusts.

* 230. **C. R. Dodge**. The Potato Bug. * * * * New York Herald, vol. xl, No. 160, June 9, 1875, p. 3.

Early and later history of *Doryphora 10-lineata*; its migrations; measures to prevent its importation into Europe; its description and habits; its allies; its destructiveness; means against it.

* 231. The **Report of the State Board of Agriculture to the Legislature of Kansas for the year 1873**, contains the following, and Nos. 232, 233.

a. The Chinch Bug, *Micropus leucopterus* [extracts from Riley's Second Annual Report on the Insects of Missouri], p. 129-131. b. Silk-worm seasons (by E. V. Boissiere), p. 137-138.

* 232. C. V. RILEY. Entomology. p. 266-274.

Extracts from Riley's Fifth Missouri Report, p. 17-27; importance and progress of entomology; how to counterwork noxious insects.

* 233. C. V. RILEY. Insect Punctures. p. 274-279, fig. 47-59.

Reprint from Riley's Fifth Annual Missouri Report, p. 119-125, fig. 47-59; eggs of *Orocharis saltator*?, *Oecanthus niveus*, *Orchelimum glaberrimum*?, *Phylloptera oblongifolia*, *Platyphyllum concavum*, *Phaneroptera curvicauda* [Orthoptera], *Ceresa bubalus*, *Poeciloptera pruinosa* and other Homoptera in and on canes, twigs and leaves.

* 234. The **Third Report Kansas State Board Agric. for 1874** contains the following, and No. 235.

a. County reports and notes upon the visitations of locusts and chinch-bugs, p. 16-53. b. Sketch of instructions given in entomology at the Agricultural College, p. 303.

* 235. PROF. F. H. SNOW. Observations on the Use of the Antennæ of *Polyphylla variolosa*.—Harris. p. 361-362.

Occurrence of *Polyphylla variolosa* at Penikese Island; adaptation of the antennæ of the male to be organs of hearing; manner in which the male seeks his mate.

* 236. Prof. J. O. Westwood. Thesaurus Entomologicus Oxoniensis; or, Illustrations of new, rare, and interesting

Insects, for the most part contained in the collections presented to the University of Oxford by the Rev. F. W. Hope [etc.], with forty plates from drawings by the Author. Oxford, Clarendon Press, 1874. Large 4to. pg. xxiv, 205, with forty plates.

Advertisement; systematic index of the insects figured and described in this work; index of the plates; obituary notice of the Rev. Fred. Wm. Hope [etc.], by T. J. Pettigrew [etc.]; list of the entomological works of the Rev. F. W. Hope; Thesaurus Entomologicus; plates.

Describes 52 genera and 236 (21 [1 new] N. A., 185 new) species of 67 (Astenorhella, Phymatopteryx, Macromina, Praona, Platysodes, Genuchinus, Callynomes, Spilophorus, Psilocnemis [Cetoniidae], Zythonia [Erotylidae] = 10 new) genera of 15 families of **Coleoptera**, principally Chremastocheilides and Paussidae; habits of some American Chremastocheilides;

Describes 24 genera and 164 (18 [12 new] N. A., 115 new) species of 50 (Perantherix, Brachytoma [Tenthredinidae] Stephanus, Ophionellus [Evaniiidae], Choetospila, Euchrysia, Polychroma, Oodera, Belonea [Chalcididae], Eupsenella, Apenesia, Loboscelidia [Proctotrupidae] = 12 new) genera of 6 families of **Hymenoptera**, principally Chalcididae and Proctotrupidae; enumerates 181 species;

Describes Physophorina, Tetricodina [Locustidae] = 2 n. gen. and 7 (5 [1 N. A.] new) species of 5 genera of 2 families of **Orthoptera**;

Describes 10 (4 new) species of 2 genera of 2 families of **Neuroptera**;

Describes 8 (2 new) species of 4 genera of 3 families of **Lepidoptera**;

Describes ten cases of gynandromorphism in Lepidoptera, and one in Neuroptera;

Describes 2 (Euloba [Tingidae] = 1 new) genera and 11 (7 new) species of 3 genera of 2 families of **Hemiptera**;

Describes *Platypsylla castorinus* of the order ? **Achreioptera**;

Describes 1 genus, 3 (1 new) species and the family of Campodeidae of **Thysanura**;

Describes Ancistrona, Polyetenes = 2 new genera and 3 new species of 2 genera of 2 families of **Anoplura**;

Describes 13 (Stylocellus, Cryptocecellus = 2 new) genera and 3 new species of 3 genera of 3 families of **Adelarthrosomata** [Arachnida].

* 237. The **New England Farmer** [see Rec., Nos. 16-18], vol. liii (new ser., vol. xxix), from No. 14, contains the following, and Nos. 238 to 241.

a. Notice of Packard's Insects of the Garden, part ii (1874), No. 15; of Moon's Bee World, vol. i (1873-1874), No. 47. b. Cabbage Worms [description, habits and American history of *Pieris rapae*; habits of its parasite (from Packard); means against it], No. 15. c. Appearance of 'grasshoppers' [locusts] in Iowa, No. 16; in Kansas, No. 32; in the West, No. 45; — their ravages, and the consequences of them, in Minne-

sota, Nos. 23, 29 (twice); in Iowa, Nos. 28, 29; in Maine, Nos. 29, 33; in Nebraska, Nos. 30, 33, 34, 35, 44; in New Hampshire, Nos. 32, 40; in Kansas, Nos. 33, 34, 39. *d.* Potato Bugs and Alfalfa [*Doryphora 10-lineata* as fond of Medicago as of Solanum], No. 17. *e.* Snow Fleas [habits of *Achorutes nivicola*], No. 17. *f.* Onion Culture [habits of *Anthomyia ceparum*; means against it], No. 18; ravages of *A. ceparum* in Massachusetts, No. 28. *g.* Grubs or Warbles in Cattle [habits of *Oestrus bovis*, means against it], No. 22. *h.* Pine Trees a preventive against Canker Worms, No. 22. *i.* Depredations of *Aphis persicae*?, Nos. 22, 26. *j.* Habits of *Psylla pyri*, or its American cousin, No. 26. *k.* Injuries caused by *Aphis cerasi*?, No. 27. *l.* Worms among the Strawberry Plants [description and habits of *Cotalpa lanigera* (from Harris)], No. 28. *m.* Cut Worm Moths.—Elm Tree Caterpillars [habits of Agrotidians (from Harris); of *Vanessa Antiopa*], No. 29. *n.* A useful [hymenopterous] parasite [upon ?*Clisiocampa americana*], No. 29. *o.* Habits of the Curculio [and means against it (from Riley)], No. 29. *p.* Ravages of caterpillars (? Tenthredinidae) on birch and poplar trees in Maine, No. 30. *q.* Beetles—Elateridae [description and habits of the family (from Packard); means against them], No. 31. *r.* Western Potato Bugs [habits of ?*Doryphora 10-lineata*] (by Wm. R. Putnam) No. 31. *s.* Arrival of *Doryphora 10-lineata* on Long Island, No. 31; in Vermont, No. 32. *t.* First appearance of *Melolontha subspinosa* in Maine; description and habits of it (from Harris), No. 32. *u.* Decrease of Noxious Insects [importance of parasites], No. 32. *v.* Parasite of the Potato Beetle [? *Coccinella*], No. 32. *w.* The Pear Slug [descriptions and habits of *Selandria cerasi* (from Harris); means against it, No. 34. *x.* The Asparagus Beetle [habits of *Crioceris asparagi*; means against it], No. 35. *y.* Charge of the Grasshopper Brigade ["poetry"], No. 36. *z.* Habits of the Grasshopper [a good sample of newspaper entomology!], No. 49. *aa.* Ingenuity of a Spider, No. 52.

* 238. S. P. WARNER. The Onion Maggot. No. 18.

Habits of *Anthomyia ceparum*.

* 239. J. N. BARTLETT. The Apple Tree Borer. Nos. 24, 39.

Habits of *Saperda candida*; means against it.

* 240. ANONYM L. B. S. Harvesting Ants. No. 25.

Extract from Moggridge's "Harvesting Ants and Trap-door Spiders" (1874), with notes; habits of *Atta structor* and *A. barbara*.

* 241. *Popular Science Monthly*. Migrations of Insects [Locusts]. No. 29.

* 242. The **New Engl. Farm.**, vol. liv (new ser., vol. xxx), as far as No. 39, contains the following, and Nos. 243 to 247.

a. Effect of food on Insects [absurdity of supposing that a change of

food changes the species of an insect], No. 4. *b.* "Grasshoppers" hatched in January at Bellows Falls, Vt. (by F. O.), No. 6. *c.* Tree Borers [apple-trees injured by *Chrysobothris femorata*, *Saperda caudata*,? *Oncideres cingulatus*], No. 10. *d.* Vast quantities of locusts chilled to death on the Blue Mts. of Colorado, No. 12. *e.* Movements of locusts in Missouri and Kansas, No. 24; along the U. P. R. R., No. 33. *f.* Notice of Packard's "Insects of the Forest" (1875), No. 25. *g.* Ravages of *Anisopteryx* in Vermont, No. 26. *h.* Caterpillar scourge in Maine, No. 27. *i.* Arrival of *Doryphora 10-lineata* in Vermont, No. 27; in Massachusetts, Nos. 29, 30. *j.* Great flight of locusts in Missouri, No. 28. *k.* Pear leaves in Vermont eaten by "a worm or slug," No. 30. *l.* Ravages of *Leucania unipuncta* in Rhode Island and Massachusetts, Nos. 31, 34; in Long Island, No. 33; in New Hampshire, No. 35. *m.* The Apple Tree Web Worm [habits of *Hypphantria textor*], No. 34. *n.* Measuring the Strength of Insects [an experiment on tractile power (by Plateau)], No. 37.

* 243. *Rev. J. G. Wood's "Insects Abroad."* Burying Beetles. No. 22.

Their habits and use.

* 244. *J. N. BARTLETT.* Tree Borers. No. 28.

Habits of Buprestidae (from Harris).

* 245. *LaROY SUNDERLAND, in Boston Journal of Chemistry.* The Currant Worm. No. 33.

[This 72-year old "recent amateur" shows his recent amateurship by confounding *Hadena arctica*, *Aegeria tipuliformis*, *Nematus ventricosus* and ? *Syrphus* sp. as some of the "three or four or a dozen phases" of THE Currant Worm.]

* 246. *A. S. PACKARD, JR.* The Colorado Potato Beetle and Army Worm. The Currant Worm, &c. No. 35.

Distinction between *Doryphora 10-lineata* and *Lema trilineata*; request for information about the movements and ravages of the former and of *Leucania unipuncta* in Massachusetts. Exposure of the errors in the article cited in Rec., No. 245.

* 247. *T. H. HASKINS, M.D.* Currant Worms. No. 35.

Defence of the use of hellebore as a means against "currant worms"; absurdity of the article cited in Rec., No. 245.

CHRYSOMELA 10-LINEATA ON LONG ISLAND. On May 25, 1875, I captured a specimen of *Chrysomela 10-lineata* Say, or Colorado Potato-beetle, at Bay Ridge, L. I., and a few days afterward received a number from a friend, taken near Fort Hamilton, L. I. Thinking a notice of its appearance among us would be interesting to some of the readers of your valuable little publication, I have taken the liberty of sending you this note. — *John Akhurst*, Brooklyn, N. Y., June 4, 1875.